

WHAT IS CLAIMED IS:

1. A method of reproducing data from a recording medium, each of the data including reference time information indicating a reference time and including packet data, the method comprising:

reproducing the data from the recording medium;

obtaining a difference between respective reference times indicated by the reference time information of the reproduced adjacent data;

rearranging the data on a time axis such that a time interval between adjacent data is equal to the obtained reference time difference; and

outputting the rearranged data.

2. A method according to Claim 1, wherein the packet data includes at least video packet data into which a compressed video signal data stream is divided, and audio packet data into which a compressed audio signal data stream is divided.

✓

3. An apparatus for reproducing data from a recording medium, the data including reference time information indicating a reference time and including packet data, the apparatus comprising:

a reproducing circuit which reproduces the data from the recording medium;

a memory which stores the data reproduced by the reproducing circuit; and

an outputting circuit which reads the data from the memory, obtains a difference between respective reference times indicated by the reference time

information of the read adjacent data, rearranges the data on a time axis such that a time interval between adjacent data is equal to the obtained reference time difference, and outputs the rearranged data.

4. An apparatus according to Claim 3, wherein the packet data includes at least video packet data into which a compressed video signal data stream is divided, and audio packet data into which a compressed audio signal data stream is divided.

5. A method of outputting received data including reference time information indicating a reference time and including packet data, the method comprising:

obtaining a difference between respective reference times indicated by the reference time information of the received adjacent data;

rearranging the data on a time axis such that a time interval between adjacent data is equal to the obtained reference time difference; and

outputting the rearranged data.

6. A method according to Claim 5, wherein the packet data includes at least video packet data into which a compressed video signal data stream is divided, and audio packet data into which a compressed audio signal data stream is divided.

7. An apparatus for outputting received data including reference time information indicating a reference time and including packet data, wherein the

outputting apparatus obtains a difference between respective reference times indicated by the reference time information of the received adjacent data, rearranges the data on a time axis such that a time interval between adjacent data is equal to the obtained reference time difference and outputs the rearranged data.

8. An apparatus according to Claim 7, wherein the packet data includes at least video packet data into which a compressed video signal data stream is divided, and audio packet data into which a compressed audio signal data stream is divided.

9. A method of reproducing data from a recording medium, the data including reference time information indicating a reference time and including packet data, comprising:

reproducing the data from the recording medium;

when a difference between respective reference times indicated by the reference time information of the reproduced adjacent data is $T1$, rearranging the data on a time axis such that a time interval between adjacent data is equal to $T1$ and outputting the rearranged data; and

when a difference between respective reference times indicated by the reference time information of the reproduced adjacent data is $T2$ (not equal to $T1$), rearranging the data on a time axis such that a time interval between adjacent data is equal to $T2$ and outputting the rearranged data.

10. An apparatus for reproducing data from a recording medium, the data including reference time information indicating a reference time and including packet data, comprising:

a reproducing circuit which reproduces the data from the recording medium;

a memory which stores the data reproduced by the reproducing circuit; and

an outputting circuit which reads the data from the memory, when a difference between respective reference times indicated by the reference time information of the read adjacent data is T_1 , rearranges the data on a time axis such that a time interval between adjacent data is equal to T_1 , and when a difference between respective reference times indicated by the reference time information of the read adjacent data is T_2 (not equal to T_1), rearranges the data on a time axis such that a time interval between adjacent data is equal to T_2 and outputs the rearranged data.

11. A method of outputting received data including reference time information indicating a reference time and including packet data, the method comprising:

when a difference between respective reference times indicated by the reference time information of the received adjacent data is T_1 , rearranging the data on a time axis such that a time interval between adjacent data is equal to T_1 and outputting the rearranged data; and

when a difference between respective reference times indicated by the reference time information of the received adjacent data is T_2 (not equal to T_1),

rearranging the data on a time axis such that a time interval between adjacent data is equal to T_2 and outputting the rearranged data.

12. An apparatus for outputting received data including reference time information indicating a reference time and including packet data, wherein:

when a difference between respective reference times indicated by the reference time information of the received adjacent data is T_1 , the outputting apparatus rearranges the data on a time axis such that a time interval between adjacent data is equal to T_1 and outputs the rearranged data; and

when a difference between respective reference times indicated by the reference time information of the received adjacent data is T_2 (not equal to T_1), the outputting apparatus rearranges the data on a time axis such that a time interval between adjacent data is equal to T_2 and outputs the rearranged data.